

SUBSTITUTE SPECIFICATION

F-9049

Ser. No.

Abstract

The invention relates to a device for coupling ultrasound clamp-on throughflow measuring heads to a high-temperature measuring tube. The invention is characterized in that a thin coupling plate is arranged between the tube wall and the measuring head. As a result, the temperature of the measuring head can be reduced to a maximum acceptable value. The shape of the coupling plate affects the adjustable temperature profile in such a way that the isotherms extend in the tube wall area in a parallel manner in relation to the path length of the sound waves in the measuring head area, thereby minimizing resulting errors in throughflow measurement.